



**FRESHMAN
COURSE CATALOG
2012 - 2013**

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Peninsula High School Freshman Registration - Class of 2015

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We are looking forward to welcoming the Class of 2015!

The registration process this year will include students entering the information from this sheet into the Parent Portal computer program. This will take place at the middle school. **DUE DATE: KPMS – March TBA HRMS – March TBA**

Course Guide: The PHS Course Description Guide may be viewed online at the Peninsula High School website.

Please use the following web address for access: www.phs.psd401.net

Click on the **Academics tab** and scroll down to **Course Catalog** and across to **2011/2012**.

Student Name _____

The following courses are required for all 9th grade students:

- o English 9
- o Math (Please circle a required Math course and obtain your current Math teacher's signature.)
Algebra 1 Geometry Algebra 2 Precalculus
Math Teacher Signature _____
- o Science (Please circle the appropriate Science course noting prerequisites required for each.)
Lab Science 9 Biology AP Environmental Science
- o Physical Education: (Both) Activities (one semester) and Swimming (one semester)

ELECTIVE OPTIONS

Access the course guide to familiarize yourself with these courses. Please **choose at least six** and number them in your order of preference beginning with your first choice as #1. You will have up to four of these courses next year.

- ___ American Sign Language 1 (year long)
- ___ Art History
- ___ Batik
- ___ Broadcasting 1
- ___ Ceramics
- ___ Chinese 1 (year long)
- ___ Computer Aided Drafting & Engineering
- ___ Computer Applications
- ___ Concert Band (year long)
- ___ Concert Choir (year long)
- ___ Drama
- ___ Drawing and Painting
- ___ Engines & Equipment
- ___ Fashion Design and Construction
- ___ French 1 (year long)
- ___ Glass Art
- ___ Introduction to Creative Arts
- ___ Marketing 1
- ___ Media and Print Journalism
- ___ Media Production
- ___ Metal Fabrication and Manufacturing 1

- ___ Food Preparation and Nutrition
- ___ Percussion Ensemble
- ___ Photography 1
- ___ Robotics
- ___ Silkscreen and Printmaking
- ___ Spanish 1 (year long)
- ___ Spanish 2 (year long)
- ___ Survey of Forensic Science
- ___ Symphonic Band (Audition Required)
- ___ Wood Construction and Technology
- ___ Desktop Publishing/ Yearbook
(Middle School Teacher Signature Required)

___ Leadership
(Middle School Teacher Signature Required)

Parent/Guardian Signature

ARTS

FINE ARTS

Art electives are designed to develop the creative abilities of the individual student through exposure to different media and the learning of basic artistic skills. Art classes promote a knowledge and understanding of art as an enjoyable, enriching aspect of life. Hopefully, with the development of skills and awareness of design, the appreciation of art and art involvement will become a carry-over activity that one can enjoy past graduation.

BATIK

OPEN TO: 9-12

1 semester

PREREQUISITE: None

CREDIT: .5 Art

FEE: \$30.

CONTENT: This course will explore the various batik techniques used in wax and dye resist on fabric. Projects will include banners, clothing, pillows, wall hangings and soft sculpture. Other techniques that may be covered are tie dye, direct dye, silk-screening t-shirts, marbling, Ukrainian eggs and basketry. Student's work may be displayed and selected for show in galleries.

CERAMICS

OPEN TO: 9-12

1 semester

PREREQUISITE: None

CREDIT: .5 Art or Career and Technical Education

FEE: \$40

CONTENT: Students in this course will be introduced to basic methods of construction: hand building, coil, wheel, slab, sculptural, and functional. Students can select to focus on wheel throwing or sculpture. Glazing and decorating techniques will be explored. Raku methods of firing may be included.

DRAWING AND PAINTING

OPEN TO: 9-12

1 semester

PREREQUISITE: None

CREDIT: .5 Art

FEE: \$30

CONTENT: Students will develop skill in a variety of drawing techniques. Media used in the class will include pencil, graphite, charcoal, ink, oil pastel, chalk, crayon and paint. Students will learn to draw realistically as well as abstract and non-objective. Student's work may be displayed and selected for show in galleries.

GLASS ART

OPEN TO: 9-12

1 semester

PREREQUISITE: None

CREDIT: .5 Art or Career and Technical Education

FEE: \$60

CONTENT: Students will be introduced to the use of glass art through copper foil, lead came, concrete stepping-stones, glass etching and fusion. Students will also use the creative process to problem solve, apply their solutions, and respond to art

INTRODUCTION TO CREATIVE ART

OPEN TO: 9-12

1 semester

PREREQUISITE: None

CREDIT: .5 Art

FEE: \$30

CONTENT: A basic art class designed for students who have had little or no previous experience. Students will sample a variety of mediums to include, but are not limited to, drawing, painting, ceramics, printmaking, and silk-screening. We will cover design concepts such as line, shape, form, color, texture and balance. Students will evaluate their work and the work of others through the critique process.

SILK SCREEN/PRINT MAKING

OPEN TO: 9-12

1 semester

PREREQUISITE: None

CREDIT: .5 Art or Career and Technical Education

FEE: \$30

CONTENT: This course introduces students to the print making techniques of silkscreen, linoleum block (relief), one-of-a-kind (monotypes), etching, cardboard, and found object prints (intaglio). Students will complete 6-9 original printed images using a variety of methods including the use of a hand operated printing press and silkscreen printing on t-shirts.

ART HISTORY

OPEN TO: 9-12

1 semester

PREREQUISITE: None

CREDIT: Art, Social Studies

This course will examine, analyze, and evaluate the major stylistic and time periods, movements, and trends in the visual arts of Western civilization from Pre-history through the Renaissance. In addition to the stylistic and structural components of art, students will study historical, social, religious, political, technological, and philosophical issues integral and related to the production and development of art. Attention will be given to Non-Western art wherever appropriate, especially during the study of time periods during which Western civilization came in contact with those cultures.

PERFORMING ARTS

Music and Drama provide a means for creative and individual expression. The development of aesthetic awareness through involvement with the performing arts carries over to activities that one can enjoy past graduation. All courses are elective and do fulfill elective and arts requirements for graduation.

CONCERT CHOIR

OPEN TO: 9-12

1 year

PREREQUISITE: None

CREDIT: 1.0 Art

FEE: Pay for Participation fee, ASB card, \$25, and choir attire (i.e. dress, casual uniform, etc.)

CONTENT: A choir for young men and women who enjoy singing. There is no audition required. This course offers an opportunity for the enjoyment of choral music and for learning to sing with appropriate vocal style tone and confidence. Students will study a variety of choral literature and develop vocal technique, basic rhythm and note reading skills. The choir will perform several times throughout the course of the school year, mostly outside of the normal school day.

BAND INFORMATION

Participation in all bands other than Concert, is subject to instructor placement determined by an audition to assess the student's instrumental technique and music reading skill. All band students are required to participate in rehearsals and performances before and after school. Band students are expected to rent or purchase their own instruments, except for certain instruments provided by the school and to purchase their own mouthpieces, reeds, and other accessories. Band is a FULL YEAR course.

All students enrolled in the Jazz Band, Symphonic Band, Concert Band, or Percussion Ensemble class will participate in marching band unless excused by the band director. Marching band rehearsals begin with a band camp near the end of July and continue through the fall semester. These rehearsals occur either before or after school. Please contact the Band Director if there are scheduling difficulties for the commitments outside of school time. Mandatory attendance for all outside sporting events and concert is required of all students.

BASIC PIANO / KEYBOARDING

OPEN TO: 9-12

1 semester

PREREQUISITE: None

CREDIT: 0.5 Art

FEE: TBD at press time

CONTENT: This class offers the opportunity to develop basic piano keyboarding skills, focusing on technique, music reading, fundamentals, and beginning repertoire. Further, we will cover basic theory, improvisation, sight reading, basic scales and introduction to piano literature.

BEGINNING GUITAR

OPEN TO: 9-12 1 semester

PREREQUISITE:

CREDIT: 0.5 Art

FEE: Workbook \$25

REQUIRED: Acoustic Guitar

CONTENT: This course is designed for students with no prior guitar experience. The purpose of this class is to introduce guitar fundamentals, music theory, songs, rhythm and chords.

CONCERT BAND

OPEN TO: 9-12 1 year

PREREQUISITE: Band instrument

CREDIT: 1.0 Art

FEE: Pay for Participation, \$25, ASB card, performance attire (TBA)

CONTENT: Open to all students interested in being part of a fun and exciting band. All students must provide their own instruments. Student will be studying the fundamentals of music and technique on their instrument through a provided method book and repertoire. Emphasis will be placed on individual achievement within the band context. Required attendance outside of school for sporting events and special concerts.

CREATING MUSIC

OPEN TO: 9-12 1 semester

PREREQUISITE: None

CREDIT: 0.5 Art

FEE: TBD at press time

CONTENT: From garage band to mega-star...This course will introduce you to the fundamentals of composing and writing music. Topics to be explored include: rhythm, rhythmic patterns, melody, harmony, notation techniques, instrument choice, form, music technology, copyright and commercial applications.

JAZZ ENSEMBLE

OPEN TO: 9-12 1 year

PREREQUISITE: Must be in one of the other bands or have teacher approval. **Audition required**

CREDIT: 1.0 Art

CONTENT: Students will study jazz music from big band music through contemporary jazz-fusion. The course emphasizes the performances of jazz as well as understanding its theory. Students enrolled co-currently with either Symphonic Band, Concert Band, or Percussion Ensemble. This class will meet in the zero hour class time at 6:30a.m. and may have various performances and rehearsals outside of school hours.

MUSIC IN OUR LIVES

OPEN TO: 9-12 1 semester

PREREQUISITE: None

CREDIT: 0.5 Art or 0.5 social studies

FEE: Students may be required to purchase a small musical instrument (under \$10)

CONTENT: This is a music survey class designed for the non-musician, although musicians may benefit and are welcome to enroll as well. This course will stimulate thinking regarding the role and importance of music in our lives and in the life of American and world cultures. Students will become acquainted with a variety of music styles--popular, classical, jazz, rock, non-Western, and others--and will learn to make aesthetic judgments based on critical listening and analysis rather than on stereotypes and/or prejudices. Students will also learn to read and perform music with voices and/or instruments. This is a FUN class designed to expand students' musical interests and knowledge

SYMPHONIC BAND

OPEN TO: 9-12 1 year

PREREQUISITE: Prior experience in a band program with recommendation from the director. Incoming 9th graders may be selected if they pass an audition that shows proficiency on their instruments and knowledge of major scales, chromatic scale, and demonstrate sight-reading ability.

CREDIT: 1.0 Art

FEE: Pay for Participation, \$25, ASB card, performance attire (TBA)

CONTENT: Students receive training on wind or percussion instruments, varied musical styles, and basic theory practices. Students will also receive training in band performance, marching band, small ensembles and concerts. Required attendance outside of school for sporting events and special concerts.

PERCUSSION ENSEMBLE

OPEN TO : 9-12 1 semester

PREREQUISITE: None

CREDIT: .5 Art

FEE: \$25

CONTENT: Students will learn basic and advanced techniques related to the performance of percussion instruments. This will include keyboard percussion, timpani, multiple percussion, marching percussion, snare drum, and all auxiliary percussion as well as non-traditional percussion instruments. During the first semester, all Percussion Ensemble students will perform with the Pep Band.

The Percussion Ensemble may take special trips to perform at various festivals and/or events. The ensemble will perform many concert pieces that feature percussion as well as normal percussion duties for concert groups. Performance is required. This is a year long course.

DRAMA

OPEN TO : 9-12 1 semester

PREREQUISITE: None

CREDIT: .5 Art

CONTENT: In the first 9 weeks of this course, improvisation and creative dramatics are emphasized. Stage terminology will be taught as well as theater history. Students will learn poise and how to work effectively in groups. Masks and puppets will be created and used in performance in the elementary schools. The second 9 weeks will stress work on monologues, scenes and one-act plays, or a children's play for all Peninsula School District elementary schools.

CAREER AND TECHNICAL EDUCATION

PC³ - This symbol is used in the course descriptions to indicate articulated classes with dual crediting. This allows students to earn both high school and community college credit. For more information please see www.pc3connect.org.

BUSINESS & MARKETING

COMPUTER APPLICATIONS 1

PC³

OPEN TO : 9-12 1 semester

PREREQUISITE: None

CREDIT: .5 Career and Technical Education, Technology

CONTENT: Students will learn basic word processing, spreadsheet, and presentation skills using Office software. Students will use the computer to improve touch keyboarding and keypad skills. In addition, students will get exposure to the internet and other network applications. Opportunities exist for students to qualify for dual credit and/or MOS (Microsoft Office Specialist)* certification.

***NOTE: MOS Certification is an industry-recognized standard of achievement and is considered extremely beneficial for employability.**

COMPUTER APPLICATIONS 2

PC³

OPEN TO : 9-12 1 semester

PREREQUISITE: Computer Applications ("C" grade or better) or Proficiency on the SAM test, Teacher signature required

CREDIT: .5 Career and Technical Education, Technology

CONTENT: This course is an in-depth study of Office software and its applications. Students will study advanced word processing, spreadsheet, database and presentation applications. In addition, students will also get exposure to desktop publishing, internet, and other network applications. The focus of this class is to provide students with advanced skills to qualify for dual credit and/or MOS (Microsoft Office Specialist)* certification. ***NOTE: MOS Certification is an industry-recognized standard of achievement and is considered extremely beneficial for employability.**

MARKETING 1

OPEN TO : 9-12 1 semester

PREREQUISITE: None

CREDIT: .5 Career and Technical Education

CONTENT: This course is designed to give students a general understanding of the world of business. The main areas of focus will include: Marketing functions strategies, identification, channels of distribution, and the selling process. Students will begin to

develop human resource foundations critical for success in the world of work. Students will also be given the opportunity to be a member of the Distributive Education Clubs of America (DECA).

ENGINEERING & TECHNOLOGY

COMPUTER AIDED DRAFTING & ENGINEERING 1 **PC³** OPEN TO: 9 -12 1 semester

PREREQUISITE: None

CREDIT: .5 Career and Technical Education, Technology

***Dual Credit Course** – The first of two courses

CONTENT: This is an exploratory technical design course where students master skills utilizing computer assisted design (CAD) to develop three dimensional models as used in product design, architecture, interior design, engineering, and special effects for film animation. Students will produce professional work in a lab environment. The course will utilize Rhino as the primary CAD program. Student projects will be assembled to create a personal portfolio reflecting student interest, creativity, and drawing proficiency.

COMPUTER AIDED DRAFTING & ENGINEERING 2 **PC³** OPEN TO: 9 -12 1 semester

PREREQUISITE: CAD/Engineering 1 or Teacher signature required

CREDIT: .5 Career and Technical Education, Technology

***Dual Credit Course**

CONTENT: This course teaches skills in sketching, hand drafting, and computer aided design (CAD) as utilized in the fields of architecture and engineering. The student learns graphic communication skills to convey technical ideas with clarity and precision. The course will develop a core of AutoCAD drawing skills focused primarily on crating two-dimensional images on a variety of media for a technical audience. Students will also create three dimensional models, renderings and walk-throughs. Students will produce professional work in a lab environment working with current technology.

ENGINES & EQUIPMENT OPEN TO : 9-12 1 semester

PREREQUISITE: None

CREDIT: .5 Career and Technical Education

REQUIRED TOOLING: 6" plastic or metal dial caliper (must read .001) and (6) #2/HB pencils

CONTENT: Individuals are exposed to the theoretical and mechanical concepts involved with design, maintenance, overhaul, and operation of internal combustion engines and related drive components. Study will also cover various mechanical drive systems such as electrical, hydraulic, and power take-off systems. Principles of instruction include job related activities, teamwork, safety, workplace ethics, measurements, measurement systems, trouble shooting, material familiarization, and shop communication skills.

METAL MANUFACTURING 1 OPEN TO : 9-12 1 semester

PREREQUISITE: None

CREDIT: .5 Career and Technical Education

REQUIRED TOOLING: 1 pair of cutting and welding gloves, 8" Slip-Joint pliers, (6) #2/HB pencils, 1 locker pad lock (combination)

CONTENT: Individuals are introduced to a basic hands-on practical application of information and learned skills required by metal working industries. Areas of study include familiarization of various metals, industry forms of measurement and specification, fastening systems, welding, and machine tool operation. Safety, teamwork, workplace ethics, and employer-employee relations are also stressed. As time and skill level permit, individuals may design and fabricate projects related to the metals manufacturing industries.

COMPUTER AIDED DRAFTING AND ENGINEERING OPEN TO : 9-12 1 semester

PREREQUISITE: None

CREDIT: .5 Career and Technical Education, Technology

CONTENT: This course teaches skills in sketching, hand drafting, and computer aided design (CAD) as utilized in the fields of architecture and engineering. The student learns graphic communication skills to convey technical ideas with clarity and precision. The course will develop a core of AutoCAD 2000 drawing skills focused primarily on creating two-dimensional images on a variety of media for a technical audience. Students will also create three dimensional models, renderings and walk-throughs. Students will produce professional work in a lab environment working with current technology.

WOOD CONSTRUCTION/TECHNOLOGY

OPEN TO : 9-12

1 semester

PREREQUISITE: None

CREDIT: .5 Career and Technical Education

REQUIRED TOOLING: 12 ft. or longer steel tape measure, #2 (¼ inch) square drive bit and (6) #2/HB pencils

CONTENT: Individuals are introduced to the construction and manufacturing world as it relates to the wood based trades. This course provides the individual a true hands-on approach to various construction trades. Also provided is a clear view of the furnishings manufacturing trade and its related component industries. Individual and teamwork projects will include skills in design, structural integrity, specifications, production drawings, fabrications, tools and equipment familiarization. Safety, teamwork, industrial measurement systems, workplace ethics, shop communication skills and employment opportunities.

FAMILY AND CONSUMER SCIENCE EDUCATION - (FACSE)

FOOD PREPARATION AND NUTRITION

OPEN TO : 9-12

1 semester

PREREQUISITE: Desire to work in a tight kitchen unit with a variety of students.

CREDIT: .5 Career and Technical Education

FEE: \$30 (\$10 for Food Handlers Training and card extra/optional)

CONTENT: This exploratory class balances food preparation skills with basic nutrition study. Students will need to complete all assignments at an A level to receive an A in class. Students will learn basic kitchen math, safety and sanitation, while preparing basic foods. The following units focus on one specific food group, reading, study guides, video and preparing foods from that group. Foods groups to be covered are Fruits, Vegetables, Grains, Legumes, Dairy, Eggs, Meats, Poultry, Fish and combination foods like stews, stir-fries and soups. Students are required to try all foods prepared in class unless a food restriction has been documented. Work readiness skill will be evaluated as part of the student grade. Participation in the **Catering Club** will provide students leadership opportunities.

FASHION DESIGN AND CONSTRUCTION I

OPEN TO: 9 – 12

1 semester

PREREQUISITE: Desire to learn to sew

CREDIT: .5 CTE or Elective

FEE: \$25 lab fee plus cost of individual sewing projects

CONTENT: Do you love clothes and want to make your own? This class will get you started with the basics of running a sewing machine, reading and interpreting patterns, fabric identification, construction and fashion drawing. Level 1 Textile and Apparel class covers the basics of sewing techniques, vocabulary, equipment, fashion illustration, elements of design relating to fashion and contemporary fashion designers. The required lab fee will cover the cost of the class sewing project, pattern, fabric and notions for a flannel or sweat pant. Patterns for the second project a simple fleece jacket will be provided but students will be purchasing their own fabric under the supervision of the teacher during a class field trip. Students will complete an elements design portfolio as well as a contemporary Designer Power Point research project. . Guest presenters and college exploration will connect students to career opportunities. This project based class requires students capable of self-direction and strong work based skills.

MEDIA & VISUAL COMUNICATIONS

PHOTOGRAPHY 1

OPEN TO : 9-12

1 semester

PREREQUISITE: None

CREDIT: .5 Art, Career and Technical Education

FEE: \$40

CONTENT: **This is the first of four levels in our series (all other levels taken in Advanced Photography).** Students begin to explore the art and business of photography. They learn the basics of using a 35mm camera, printing in a black and white darkroom, and seeing photographically. Students photograph a variety of subjects. They hand color, dry mount, and make portfolios. Students should have their own 35mm cameras, although a few are available from the school on overnight loan. A Camera Loan contract must be on file.

BROADCASTING 1

OPEN TO : 9-12

1 semester

PREREQUISITE: None

CREDIT: .5 Career and Technical Education

CONTENT: This course introduces the student to the world of broadcasting. Students will produce audio projects through hands-on experience in production booths. In addition, they will become familiar with how radio and television fit in the larger

picture of mass media; will review the history of radio/TV; will look into future technical developments; will learn regulations of radio broadcasting; will be able to write short scripts; will learn vocal techniques to read those scripts; and in the process will learn the operation of various types of broadcast equipment; Finally, they will be introduced to the day-to-day "on-air" operation of a radio station on the school's radio station, KGHP-FM

MEDIA PRODUCTION 1

OPEN TO : 9-12 1 semester

PREREQUISITE: None

CREDIT: .5 Career and Technical Education, Technology

CONTENT: This is a semester course in animation graphics. Flash is a vector graphics program used extensively in web design and to create animations limited by small file space. Students will learn to create, import, manipulate, edit and publish a variety of Flash animations in a graphic environment.

DESKTOP PUBLISHING / YEARBOOK 1 & 2

OPEN TO: 9-12 1 year

PREREQUISITE: Instructor permission

CREDIT: 1.0 Career and Technical Education

FEE: Must purchase ASB activity card. Pay for participation fee.

CONTENT: Yearbook 1 and 2 begins with an introduction to producing a yearbook using InDesign and Photoshop software. Students learn the standard conventions associated with communicating graphically to a student and community audience. They will learn to set and meet basic production goals. Yearbook will teach aspects of design, photography, production, marketing, editing, writing, recruiting, and customer service. Students will be given responsibility and expected to work both independently and as part of a cohesive team. Yearbook staff is responsible for producing the KWAHAES yearbook and a video documenting the year.

ENGLISH

Students will meet the Washington State Grade Level Expectations in English Language Arts skills through interactive and engaging reading, writing, and thinking strategies. The English Department instructors have high expectations for all language arts students and therefore provide a rigorous and relevant curriculum that prepares all students to meet their post high school goals. We encourage all of our students to take four years of English in order to acquire the skills necessary for college and the workplace. All students should take English 9 (freshman year), English 10 (sophomore year), and English 11 (junior year). Seniors have a choice of year-long or semester classes. In each course students will have the opportunity to improve reading comprehension skills, writing skills, communication skills, and higher-level thinking skills.

The English department has initiated the Peninsula Reads Project. All students are expected to read over the summer. We will announce books in June, and make every effort to supply books for each student to read.

ENGLISH 9

OPEN TO: 9 1 year

PREREQUISITE: None

CREDIT: 1.0 English

CONTENT: In freshman year, the units focus on the concept of "Coming of Age," as well as presenting a traditional genre study. The units begin with an introduction to the idea of "Coming of Age" and then follow this topic by presenting units focused on short stories, poetry, drama, film, non-fiction, and a novel that present incidents that are significant milestones in the lives of young people. Specific elements of genre study and writing skills are emphasized. Students are expected to learn and apply reading, writing, oral and collaborative strategies to their own learning styles, strengths and weaknesses.

MEDIA AND PRINT JOURNALISM

OPEN TO : 9-12 1 semester

PREREQUISITE: None

CREDIT: .5 Career/Technical, Art, English

CONTENT: Students learn to utilize basic reporting and writing techniques as well as principles of graphic design and photography as they produce several publications for the school at large. This class prepares students to write and work for the school newspaper by teaching them how to be savvy consumers and intelligent producers of news. Different credit types are awarded upon completion of necessary criteria in content areas.

GENERAL ELECTIVES

LEADERSHIP

OPEN TO : 9-12

1 semester

PREREQUISITE: Teacher permission

CREDIT: .5 elective

CONTENT:

Enrollment: 1st Semester is open to the following:

- (1) Twenty-one elected ASB class senators
- (2) Five elected ASB executive officers
- (3) Any other interested students as space allows

2nd Semester is open to:

- (1) ASB executive officers
- (2) Senior and junior senators
- (3) Any who are interested in organizing and being involved with student activities

The following topics will be covered in class:

- (1) Project Planning*
- (2) Community Service*
- (3) Group Dynamics
- (4) Communication Skills
- (5) Positive Self-Image
- (6) Goal Setting
- (7) Problem Solving/Decision Making/Creative Thinking
- (8) Parliamentary Procedure
- (9) Time-Lining

* At least one day a week will be devoted specifically to organizing, executing and evaluating class/school projects.

ROBOTICS

OPEN TO: 9-12

1 semester

PREREQUISITE: C or better in Algebra 1

CREDIT: .5 General Elective

CONTENT: This is an introductory course in pre-engineering robotics. Students are exposed to theoretical and mechanical concepts involved with engineering, programming, testing and troubleshooting robotic designs in a project based environment. Study will also cover problem solving strategies, basic programming (C++ variant), mechanical design strategies with an emphasis on teamwork. Students may participate in an annual Botball robotics competition.

MATHEMATICS

The current graduation requirement is two years (4 semesters) of high school level mathematics. This will increase to three years for the class of 2014.

It is strongly recommended that the college bound student complete three years (6 semesters) of math to include Algebra 2. All 4-year Washington State colleges require the completion of Algebra 2. To enable students to be competitive in the market place of the future, four years of mathematics are strongly recommended.

A ninth grade student may enroll in Algebra 1, Geometry, or Algebra 2 as determined by a placement test administered in the spring of the eighth grade year. Ninth grade students desiring a different or higher level course must meet special requirements. Contact the Mathematics Department Chair for details.

The sequential nature of mathematics requires that students demonstrate sufficient knowledge and skill at each level to ensure they have the necessary foundation upon which to build continued success at each level. Students will be better prepared to address the new skills and content of each subsequent math class if they meet the standard of passing each prior mathematics class with a C or better.

Students are required to have passed the second semester of Algebra 1, both semesters of Geometry, and both semesters of Algebra 2 before progressing to the next course in the sequence. Students taking advanced classes (AP Statistics, AP Calculus, Pre-Calculus) are required to pass each semester of the course before moving on to the next semester.

Calculators: Calculators are available in the classroom for student use. We encourage all students to purchase their own calculator to use at home. We currently teach with the TI-83 and TI-84 graphing calculator, which is used in all math classes and many of the science classes.

ALGEBRA 1

OPEN TO: 9 –11

1 year

CREDIT: 1.0 Math

CONTENT: Algebra 1 serves as the foundation for the study of mathematics at the high school. It is the first course of an integrated sequence focusing on algebra and functions, geometry, statistics, probability, and discrete mathematics. Students can expect an active learning environment, using engaging everyday contexts to develop mathematical concepts. Topics include investigating patterns in data, developing methods to represent and predict change, modeling linear and exponential situations, investigating properties of 2 and 3 dimensional spaces, and utilizing simulation models to describe and understand chance. Graphing calculators are utilized on a daily basis. While students have access to graphing calculators in class, it is strongly recommended that students purchase a TI-83 or TI-84 for use on homework and make up work.

GEOMETRY

OPEN TO 9-12

1 year

PREREQUISITE:C or better 2nd Semester of Algebra 1 or Teacher Recommendation

CREDIT: 1.0 Math

CONTENT: Geometry is the second year of the Holt Math Series. Structured similar to Math 1, this course will cover topics such as using matrices and matrix operations; investigating patterns of location, shape, and size; using direct and inverse power variation and quadratic functions to model a variety of problems; investigating and modeling trigonometric functions and periodic change; and patterns in chance. Graphing calculators are utilized on a daily basis. While students have access to graphing calculators in class, it is strongly recommended that students purchase a TI-83 or TI-84 for use on homework and make up work.

ALGEBRA 2

OPEN TO: 9-12

1 year

PREREQUISITE:C or better in both semesters of Geometry or Teacher Recommendation

CREDIT: 1.0 Math

CONTENT: Algebra 2 is the third year of the integrated math sequence. Topics will include multivariate modeling, symbol sense and algebraic reasoning, shapes and geometric reasoning, patterns in variation, families of functions and discrete models of change. Students who successfully complete the three years of Mathematics will be prepared to move on to AP Statistics and Pre-calculus. It is strongly recommended that students purchase a TI-83 or TI-84 for work in this class. A **student's** willingness to participate in the course is essential.

PHYSICAL EDUCATION AND HEALTH

REQUIREMENTS: Four (4) semesters of physical education plus one (1) semester of health are required for graduation from Peninsula High School.

RECOMMENDED SCHEDULE:

Grade 09:	Intro to P.E. (Field and Court) Intro to P.E. (Aquatics)
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Grade 10:	1 semester of Health.
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* The two remaining semesters of PE may be fit into the sophomore, junior or senior year.

PROGRAM SUMMARY:

The physical education and health program of Peninsula High School is concerned with individual development toward a lifetime fitness program, improving levels of physical fitness levels, development of sports, aquatic and safety skills, and knowledge of health information and issues. Each class emphasizes fitness, effort and attendance. Students are required to attend class and wear appropriate, athletic style clothes. Students must pass Intro to P.E. before other P.E. classes may be take.

PHYSICAL EDUCATION 9th (Field and Court)

OPEN TO: 9-10

1 semester

PREREQUISITE: NONE

CREDIT: .5 Physical Education

CONTENT: Introduction to P.E. is the initial course in the high school curriculum. This co-educational course is one-half of the prerequisite for all other P.E. classes. This course includes the introduction /review of basic skills and the safety aspects of a

variety of sport activities. Fitness education, conditioning, testing, and evaluation, as well as monitoring fitness goals will be key elements. Students are required to dress out in proper attire that will enable them to actively participate in daily activities. Students are expected to follow the rules and etiquette of each activity, respect self and others, and take responsibility to actively participate to the best of their abilities.

PHYSICAL EDUCATION 9th (Aquatics)

OPEN TO: 9-10 1 semester

PREREQUISITE: NONE

CREDIT: .5 Physical Education

CONTENT: This required class is an active and fun way for students to learn water skills, basic swim strokes, diving, water safety, and basic life saving skills. Students will increase their cardio-vascular endurance and muscle strength. Students will have to supply their own (one-piece) swim suit, towel, and goggles.

SCIENCE

The science curriculum provides learning experiences that stress understanding of the processes of science and its applications and limitations within society. Students will deal with the major concepts of science, the processes and skills associated with laboratory investigations, interpretation of scientific information, and the role of science in society. All Peninsula students are required to complete two credits of science. All students will successfully complete Global Science and Biology to meet this requirement. Students planning to attend four-year colleges should take four credits in science.

AP ENVIRONMENTAL SCIENCE

PC³

OPEN TO: 9-12 1 year

PREREQUISITE: Enrolled in Geometry or higher

CREDIT: 1.0 Science and Career and Technical Education

FEE: Lab science materials fee of \$10

CONTENT: This is a yearlong course designed to be the equivalent of a one-semester introductory college course in environmental science. It will prepare students to take the College Board Advanced Placement Environmental Science exam in May. The course combines the disciplines of geology, biology, zoology, environmental science, chemistry, geography, toxicology, and environmental economics. It provides students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems (both natural and human-made), and to examine the role science and technology can play in identifying alternative solutions for resolving and/or preventing them. Local research scientists will speak on topics relevant to the management of local resources. Heavy emphasis is placed on scientific processes, lab, and outdoor fieldwork.

BIOLOGY

OPEN TO: 9-12 1 year

PREREQUISITE: None

CREDIT: 1.0 Science

CONTENT: Biology is a year long, laboratory science course. Students will explore cell structure and function, biochemistry, genetics, evolution, biological systems, ecology, microbiology, and a survey of life kingdoms. National and state standards for student learning will be emphasized. This course aims to provide the biological knowledge needed to make informed decisions about health and environmental issues in everyday life.

FORENSIC SCIENCE - SURVEY OF

OPEN TO: 9-12 1 semester

PREREQUISITE: None

Credit: .5 Science or .5 CTE

FEE: Lab science materials fee of \$15

CONTENT: Survey of Forensic Science is a one semester course which is a study of the many different specialties in the field of criminalistics. Students will learn the basic logic, procedures and techniques of many different forensic science specialties.

Some of the Career specialties studied are: Medical Examiner, Serologist, Ballistics Expert, Entomologist, Blood Spatter Expert, Toxicologist, Fingerprint Analysis Specialist, Forensic Anthropologist, Trace Analysis, Crime Scene Investigator, Forensics Psychologist and Forensic Odontologist.

LAB SCIENCE 9

OPEN TO: 9-12

1 year

PREREQUISITE: Completion of 8th grade science class

CREDIT: 1.0 Science

CONTENT: This is the beginning science course at PHS. It is a lab and activity-based exploration of the major concepts in the study of matter and energy, chemical bonding, force, energy types, astronomy, Earth science, wave theory, and the scientific method. Technology will be used for acquisition of data, information gathering and for presentations. National and State standards for student learning will be emphasized. Technical reading and career opportunities will be integrated into the academic material. An "Honors Global Science" designation will be available for student who select into a program with additional requirements. That will be done in October. A TI-84 calculator is recommended for data processing and acquisition. Honors Global Science credit may be earned by those students who would like a very challenging experience. Students who select the Honors Global Science credit will be expected to meet higher standards in the material being covered, perform additional assignments, and complete an experimental research projects.

*AP COURSES MAY FILL WITH SENIORS, JUNIORS, AND SOPHOMORES BEFORE FRESHMAN HAVE REGISTERED. IN THIS SITUATION, FRESHMAN WILL NEED TO TAKE BIOLOGY OR LAB SCIENCE 9.

SPECIAL SERVICES

The purpose of the Special Services program at Peninsula High School is to provide supplemental and remedial support to the general education curriculum. Students who select Special Services classes will be strengthening basic skills in reading, math, and written expression, developing functional life and academic skills, learning to employ positive study skills, and exploring vocational interests and opportunities. Specific goals are noted under each course offering.

MATH STRATEGIES 1

OPEN TO: 9 – 12

1 year

PREREQUISITE: Teacher permission

CREDIT: .5 Math per semester

CONTENT: Students will work on basic mathematics skills while continuing preparation for the WASL (for 9th and 10th grade students) and for reentering general education math classes. Curriculum is designed to the needs and level of ability of the particular student.

READING & WRITING STRATEGIES 1

OPEN TO: 9 – 12

1 year

PREREQUISITE: Teacher permission

CREDIT: .5 English per semester

CONTENT: Students will work on basic reading and written language skills while continuing preparation for the WASL (for 9th and 10th grade students) and for reentering general education English classes. Curriculum is designed to the needs and level of ability of the particular student.

EMPLOYMENT, TRAINING, AND TRANSITION 1

OPEN TO: 9 – 10

1 year

PREREQUISITE: Teacher permission

CREDIT: 1.0 Career and Technical Education

CONTENT: This course is the entry-level component of the Employment, Training and Transition Program, which includes community-based training in conjunction with job preparation and exploration activities. Students in the program will spend 80% - 100% of the school day in the school environment. Writing and communication skills are applied. This functional, activity based program is based on the following values: Outcome Based; Age Appropriate; Parent Involvement; Community Referenced; Monitored; Comprehensive

WORLD LANGUAGE STUDIES

World language study offers students the chance to learn more than a few phrases in American Sign Language, German, or Spanish. It also provides an opportunity for students to study another culture, to gain insights and global perspective on issues, to appreciate more fully history, music, art, science, etc., to travel successfully, and to obtain interesting and rewarding jobs unavailable to those without second language skills.

At Peninsula High School, students have the opportunity to study four world languages – American Sign Language, Chinese, German and Spanish. Students are encouraged to begin to learn a second language as early as possible in school. Students

who plan to attend a four-year college should take at least two years of a single world language, since most colleges have such a requirement. Advanced Placement preparation is available.

AMERICAN SIGN LANGUAGE 1

OPEN TO: 9-12 1 year

PREREQUISITE: None

CREDIT: 1.0 Career and Technical Education

CONTENT: A conversational approach to learning the language most widely used by the Deaf in North America. This course will also introduce students to the history of the language and to cultural aspects of our Deaf community. Dual credit available to those who meet competency through Seattle Central CC. This course meets the language requirement for any Washington state public college / university.

CHINESE 1

OPEN TO: 9-12 1 year

PREREQUISITE: None

CREDIT: 1.0 Elective

CONTENT: Chinese (Mandarin Chinese) 1 introduces the fundamentals of communicating in the language, exploring the culture, and recognizing the importance of the global community. Skills studied include social amenities, numbers, time and money; Pin Yin (Chinese phonetic symbols); basic rules of writing; and geography (history and culture of China).

FRENCH 1

OPEN TO: 9-12 1 Year

PREREQUISITE: None

CREDIT: 1.0 Elective

CONTENT: Two (2) or three (3) years of a single foreign language is recommended for college-bound students. This is the beginning course in French for students who are preparing for college-level work or personal use of the language. It includes oral work, drill and practice, free practice, reading, and writing. French culture is woven into the curriculum through music, dance, video, discussion, film, cuisine, and poetry.

SPANISH 1

OPEN TO: 9-12 1 year

PREREQUISITE: None

CREDIT: 1.0 Elective

FEE: Workbooks \$15 (workbooks continue through year 2 of this language)

CONTENT: This course provides an introduction to fundamental grammar concepts and patterns. Specialized vocabulary and culture are presented in topical chapters. The course emphasizes grammatical precision in writing skills, reading comprehension for cultural understanding, accurate pronunciation, and oral conversation. The cultures of the Americas and Spain will be introduced through the use of films, music, games, guest speakers, and recognition of significant dates and celebrations.